

**Flood Control Project Maintenance
Levee Inspections**

2013 Channel Summary Report

Overall Unit and Item Ratings

Madera County FCWCA

Ash Slough

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments & Other Structural Appurtenances	N
	Encroachments	A

Berenda Slough

Overall Unit Rating	Rated Item	Item Rating
U	Vegetation & Obstructions	U
	Shoaling / Sedimentation	U
	Erosion / Bank Caving	U
	Revetments & Other Structural Appurtenances	U
	Encroachments	M

Chowchilla River

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Shoaling / Sedimentation	A
	Erosion / Bank Caving	A
	Revetments & Other Structural Appurtenances	N
	Encroachments	A

Fresno River

Overall Unit Rating	Rated Item	Item Rating
M	Vegetation & Obstructions	U
	Shoaling / Sedimentation	U
	Erosion / Bank Caving	M
	Revetments & Other Structural Appurtenances	M
	Encroachments	A

Flood Control Project Maintenance**Unit Cover Sheet****2013 Channel Inspection Results****Madera County FCWCA**

Channel
Ash Slough

Channel Rating	A
Date of Inspection	07/25/2013
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Ash Slough					19.00	07/25/2013 07/25/2013	Richard Willoughby

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
1	Low Water Crossing	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede flow.	37.157888 ° -120.124010 °	Y	92
2		Up	Shoaling / Sedimentation		A	Inspector Comments: No shoaling at this location.	37.157888 ° -120.124010 °		1
3		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.157888 ° -120.124010 °		2
4		Up	Revetments		N	Inspector Comments: No revetments at this locaiton.	37.157888 ° -120.124010 °		3
5		Up	Encroachments		A	Inspector Comments: No encroachments.	37.157888 ° -120.124010 °		4
6		Down	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstruction present to impede flow.	37.157888 ° -120.124010 °	Y	91
7		Down	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present to divert flow.	37.157888 ° -120.124010 °		5
8		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.157888 ° -120.124010 °		6
9		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.157888 ° -120.124010 °		7
10		Down	Encroachments		A	Inspector Comments: No encroachments.	37.157888 ° -120.124010 °		8
11	Santa Fe Dr	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede flow.	37.146700 ° -120.164240 °	Y	11
12		Up	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present to divert flow.	37.146700 ° -120.164240 °		12
13		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving at this location.	37.146700 ° -120.164240 °		9
14		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.146700 ° -120.164240 °		10
15		Up	Encroachments		A	Inspector Comments: No encroachments.	37.146700 ° -120.164240 °		15

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Ash Slough					19.00	07/25/2013 07/25/2013	Richard Willoughby

LMR No.	Check Point	View	Item	Location	Rating	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
16		Down	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede flow.	37.146700 ° -120.164240 °	Y	16
17		Down	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present to divert channel flow.	37.146700 ° -120.164240 °		17
18		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.146700 ° -120.164240 °		13
19		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.146700 ° -120.164240 °		14
20		Down	Encroachments		A	Inspector Comments: No encroachments.	37.146700 ° -120.164240 °		20
21	Rd 19	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede channel flow.	37.138373 ° -120.202057 °	Y	21
22		Up	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or obstructions present to divert channel flow.	37.138373 ° -120.202057 °		22
23		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.138373 ° -120.202057 °		18
24		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.138373 ° -120.202057 °		19
25		Up	Encroachments		M	Inspector Comments: Minor piling of trees in the channel.	37.138373 ° -120.202057 °	Y	25
26		Down	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede channel flow.	37.138373 ° -120.202057 °	Y	26
27		Down	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present to divert channel flow.	37.138373 ° -120.202057 °		27
28		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or banking caving.	37.138373 ° -120.202057 °		23
29		Down	Encroachments		A	Inspector Comments: No encroachment.	37.138373 ° -120.202057 °		30
30	Rd 13	Up	Vegetation & Obstructions		A	Inspector Comments: Established tree near bridge should be removed for clear view of channel.	37.120400 ° -120.310890 °	Y	31

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Ash Slough					19.00	07/25/2013 07/25/2013	Richard Willoughby

LMR No.	Check Point	View	Item	Location	Rating	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
31		Up	Shoaling / Sedimentation		M	Inspector Comments: Minimal amount of grasses on shoaling should be controlled.	37.120400 ° -120.310890 °		32
32		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank craving.	37.120400 ° -120.310890 °		24
33		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.120400 ° -120.310890 °		28
34		Up	Encroachments		A	Inspector Comments: No encroachments.	37.120400 ° -120.310890 °		35
35		Down	Vegetation & Obstructions		A	Inspector Comments: Established vegetation near bridge should be controlled.	37.120400 ° -120.310890 °		36
36		Down	Shoaling / Sedimentation		M	Inspector Comments: Minimal amount of grasses on shoaling should be controlled.	37.120400 ° -120.310890 °	Y	37
37		Down	Erosion / Bank Caving		M	Inspector Comments: Minor erosion on right bank.	37.120400 ° -120.310890 °	Y	29
38		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.120400 ° -120.310890 °		33
39		Down	Encroachments		A	Inspector Comments: No encroachments.	37.120400 ° -120.310890 °		40
40	Rd 12	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present that would impede channel flow.	37.010800 ° -120.328280 °	Y	51
41		Up	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present that should divert channel flow.	37.010800 ° -120.328280 °		52
42		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.010800 ° -120.328280 °		44
43		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.010800 ° -120.328280 °		48
44		Up	Encroachments		A	Inspector Comments: No encroachments.	37.010800 ° -120.328280 °		55
45		Down	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstruction present to impeded channel flow.	37.010800 ° -120.328280 °	Y	56

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Ash Slough					19.00	07/25/2013 07/25/2013	Richard Willoughby

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
46		Down	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present to divert channel flow.	37.010800 ° -120.328280 °		57
47		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.010800 ° -120.328280 °		49
48		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.010800 ° -120.328280 °		53
49		Down	Encroachments		A	Inspector Comments: No encroachments.	37.010800 ° -120.328280 °		60
50	Ave 23 1/2	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstruction present to impeded channel flow.	37.090920 ° -120.268370 °	Y	61
51		Up	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation of shoaling present to divert channel flow.	37.090920 ° -120.268370 °		62
52		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.090920 ° -120.268370 °		54
53		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.090920 ° -120.268370 °		58
54		Up	Encroachments		A	Inspector Comments: No encroachments.	37.090920 ° -120.268370 °		65
55		Down	Vegetation & Obstructions		M	Inspector Comments: No vegetation issues.	37.090920 ° -120.268370 °	Y	66
56		Down	Shoaling / Sedimentation		A	Inspector Comments: A minimal amount of sedimentation present in channel that should not impede channel flow.	37.090920 ° -120.268370 °		67
57		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.090920 ° -120.268370 °		59
58		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.090920 ° -120.268370 °		63
59		Down	Encroachments		A	Inspector Comments: No encroachments.	37.090920 ° -120.268370 °		70
60	Hwy 152	Up	Vegetation & Obstructions		A	Inspector Comments: A minimal amount of vegetation near the bridge that should be controlled, but does not impede channel flow.	37.083010 ° -120.361040 °	Y	71

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Ash Slough					19.00	07/25/2013 07/25/2013	Richard Willoughby

LMR No.	Check Point	View	Item	Location	Rating	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
61		Up	Shoaling / Sedimentation		A	Inspector Comments: A minimal amount of non-aquatic grasses present on shoal, but should not impede channel flow.	37.083010 ° -120.361040 °		72
62		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.083010 ° -120.361040 °		64
63		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.083010 ° -120.361040 °		68
64		Up	Encroachments		A	Inspector Comments: No encroachments.	37.083010 ° -120.361040 °		75
65		Down	Vegetation & Obstructions		A	Inspector Comments: Established trees and vegetation near bridge should be controlled.	37.083010 ° -120.361040 °	Y	76
66		Down	Shoaling / Sedimentation		A	Inspector Comments: A minimal amount of shoaling present, but should not divert channel flow.	37.083010 ° -120.361040 °		77
67		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.083010 ° -120.361040 °		69
68		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.083010 ° -120.361040 °		73
69		Down	Encroachments		A	Inspector Comments: No encroachments.	37.083010 ° -120.361040 °		80
70	Rd 9	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede channel flow.	37.077870 ° -120.382770 °	Y	81
71		Up	Shoaling / Sedimentation		A	Inspector Comments: A minimal amount of shoaling present that should not divert channel flow.	37.077870 ° -120.382770 °		82
72		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.077870 ° -120.382770 °		74
73		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.077870 ° -120.382770 °		78
74		Up	Encroachments		A	Inspector Comments: No encroachments.	37.077870 ° -120.382770 °		85
75		Down	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede channel flow.	37.077870 ° -120.382770 °	Y	86

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Ash Slough	19.00	07/25/2013 07/25/2013	Richard Willoughby

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
76		Down	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present to divert channel flow.	37.077870 ° -120.382770 °		87
77		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.077870 ° -120.382770 °		79
78		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.077870 ° -120.382770 °		83
79		Down	Encroachments		M	Inspector Comments: Landowner built animal pen in channel.	37.077870 ° -120.382770 °	Y	90

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Ash Slough	19.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking east (upstream) at channel from low water crossing.

richard_c_20130827_063.JPG



Levee Mile Report Line	6
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking west (downstream) at channel from low water crossing.

richard_c_20130827_064.JPG



Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking east (upstream) at channel from Santa Fe Drive.

richard_c_20130827_065.JPG



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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Ash Slough	19.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking west (downstream) at channel from Santa Fe Drive.

richard_c_20130827_066.JPG



Levee Mile Report Line	21
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking east (upstream) at channel from White Rock Road.

richard_c_20130827_067.JPG



Levee Mile Report Line	25
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Encroachments

Looking southeast at brush pile in channel from Road 19.

richard_c_20130827_069.JPG



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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Ash Slough	19.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	25
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Encroachments

Looking northeast at brush pile in channel from Road 19.

richard_c_20130827_070.JPG



Levee Mile Report Line	26
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking west (downstream) at channel from Road 19.

richard_c_20130827_071.JPG



Levee Mile Report Line	30
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking east (upstream) at channel from Road 13.

richard_c_20130827_072.JPG



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**Flood Control Project Maintenance
Channel Inspections**

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Ash Slough	19.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	36
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Shoaling / Sedimentation
Looking west (downstream) minimal shoaling in channel from Road 13.	
richard_c_20130827_073.JPG	



Levee Mile Report Line	37
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Erosion / Bank Caving
Looking southwest at small erosion in channel from Road 13.	
richard_c_20130827_074.JPG	



Levee Mile Report Line	40
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions
Looking east (upstream) at channel from Road 12.	
richard_c_20130827_075.JPG	

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Ash Slough	19.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	45
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking west (downstream) at channel from Road 12.

richard_c_20130827_076.JPG



Levee Mile Report Line	50
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking east (upstream) at channel form Avenue 23 1/2.

richard_c_20130827_077.JPG



Levee Mile Report Line	55
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking west (downstream) at channel from Avenue 23 1/2

richard_c_20130827_078.JPG



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**Flood Control Project Maintenance
Channel Inspections**

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Ash Slough	19.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	60
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking east (upstream) at channel from Hwy 152.

richard_c_20130827_079.JPG



Levee Mile Report Line	65
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking west (downstream) at channel from Hwy. 152.

richard_c_20130827_080.JPG



Levee Mile Report Line	70
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking east (upstream) at channel from Road 9.

richard_c_20130827_081.JPG



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Ash Slough	19.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	75
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking west (downstream) at channel from Road 9.

richard_c_20130827_082.JPG



Levee Mile Report Line	79
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Encroachments

Looking west at animal pen in channel from Road 9.

richard_c_20130827_083.JPG



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Flood Control Project Maintenance**Unit Cover Sheet****2013 Channel Inspection Results****Madera County FCWCA**

Channel
Berenda Slough

Channel Rating	U
Date of Inspection	07/31/2013
DWR Inspector	Herman Phillips
Accompanied By	

**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Berenda Slough					18.00	07/31/2013 07/31/2013	Herman Phillips

LMR No.	Check Point	View	Item	Location	Rating	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
1	Santa Fe Dr	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation, no obstructions to channel at this location.	37.143420 ° -120.162110 °	Y	1
2		Up	Shoaling / Sedimentation		A	Inspector Comments: No shoaling no sedimentation.	37.143420 ° -120.162110 °		2
3		Up	Erosion / Bank Caving		A	Inspector Comments: No erosion present during this inspection.	37.143420 ° -120.162110 °		3
4		Up	Revetments		N	Inspector Comments: There is no revetment at this location.	37.143420 ° -120.162110 °		4
5		Up	Encroachments		A	Inspector Comments: No Trash, debris, excavation, structures, or other obstructions present within the project easement area.	37.143420 ° -120.162110 °		5
6		Down	Vegetation & Obstructions		A	Inspector Comments: Minimal, scattered obstructions or vegetation. The flow is not impeded.	37.143420 ° -120.162110 °	Y	6
7		Down	Shoaling / Sedimentation		A	Inspector Comments: No shoaling or sedimentation present.	37.143420 ° -120.162110 °		7
8		Down	Erosion / Bank Caving		A	Inspector Comments: No erosion visible at this site.	37.143420 ° -120.162110 °		8
9		Down	Revetments		A	Inspector Comments: Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible.	37.143420 ° -120.162110 °		9
10		Down	Encroachments		A	Inspector Comments: No Trash, debris, excavation, structures, or other obstructions present within the project easement area.	37.143420 ° -120.162110 °	Y	10
11	Ave 26	Up	Vegetation & Obstructions		U	Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions block approximately 50% of the FCW.	37.127300 ° -120.193040 °	Y	11
12		Up	Shoaling / Sedimentation		M	Inspector Comments: The wild growth makes it impossible to see channel 7-2012.	37.127300 ° -120.193040 °		12
13		Up	Erosion / Bank Caving		M	Inspector Comments: Unable to view channel for erosion or bank caving.	37.127300 ° -120.193040 °		13

*** Location**

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Berenda Slough					18.00	07/31/2013 07/31/2013	Herman Phillips

LMR No.	Check Point	View	Item	Location	Rating	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
14		Up	Revetments		M	Inspector Comments: Not able to see due to vegetation.	37.127300 ° -120.193040 °		14
15		Up	Encroachments		A	Inspector Comments: There is no encroachments at this location.	37.127300 ° -120.193040 °		15
16		Down	Vegetation & Obstructions		U	Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions block approximately 50% of the FCW.	37.127300 ° -120.193040 °	Y	16
17		Down	Shoaling / Sedimentation		M	Inspector Comments: Unable to see channel, dense wild growth. 7-31-2013.	37.127300 ° -120.193040 °		17
18		Down	Erosion / Bank Caving		M	Inspector Comments: Not able to see erosion nor bank caving due to wild growth in channel. 7-31-2013.	37.127300 ° -120.193040 °		18
19		Down	Revetments		N	Inspector Comments: There is no revetment at this location and is not needed.	37.127300 ° -120.193040 °		19
20		Down	Encroachments		A	Inspector Comments: No Encroachments at this site.	37.127300 ° -120.193040 °		20
21	Rd 19	Up	Vegetation & Obstructions		U	Inspector Comments: Channel is overgrown with vegetation.	37.122250 ° -120.202280 °	Y	21
22		Up	Shoaling / Sedimentation		M	Inspector Comments: Excessive vegetation on shoal in channel.	37.122250 ° -120.202280 °		22
23		Up	Erosion / Bank Caving		U	Inspector Comments: Unable to see channel to inspect for erosion.	37.122250 ° -120.202280 °		23
24		Up	Revetments		U	Inspector Comments: Unable to see revetments through dense vegetation.	37.122250 ° -120.202280 °		24
25		Up	Encroachments		A	Inspector Comments: No encroachments at this site.	37.122250 ° -120.202280 °		25
26		Down	Vegetation & Obstructions		U	Inspector Comments: Channel is overgrown with vegetation.	37.122250 ° -120.202280 °	Y	26
27		Down	Shoaling / Sedimentation		U	Inspector Comments: Shoaling is well established, stabilized by trees, brush or other vegetation. Shoals are diverting flow to channel	37.122250 ° -120.202280 °		27

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Madera County FCWCA

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LMR No.	Check Point	View	Item	Location	Rating	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
28		Down	Erosion / Bank Caving		M	Inspector Comments: Wild growth blocks view.	37.122250 ° -120.202280 °		28
29		Down	Revetments		M	Inspector Comments: Unable to see revetment due to dense wild growth.	37.122250 ° -120.202280 °		29
30		Down	Encroachments		A	Inspector Comments: No encroachments at this location.	37.122250 ° -120.202280 °		30
31	Chowchilla Blvd	Up	Vegetation & Obstructions		A	Inspector Comments: No problem with vegetation in channel at this location. Photo taken 7-24-2012.	37.106480 ° -123.234211 °	Y	31
32		Up	Shoaling / Sedimentation		A	Inspector Comments: No shoaling problem at this location.	37.106480 ° -123.234211 °		32
33		Up	Erosion / Bank Caving		A	Inspector Comments: No erosion.	37.106480 ° -123.234211 °		33
34		Up	Revetments		N	Inspector Comments: No revetment upstream at this point on either right bank nor left bank.	37.106480 ° -123.234211 °		34
35		Up	Encroachments		A	Inspector Comments: No encroachments.	37.106480 ° -123.234211 °		35
36		Down	Vegetation & Obstructions		A	Inspector Comments: No vegetation in channel.	37.106480 ° -123.234211 °	Y	36
37		Down	Shoaling / Sedimentation		A	Inspector Comments: No shoaling present during this inspection.	37.106480 ° -123.234211 °		37
38		Down	Erosion / Bank Caving		A	Inspector Comments: No erosion.	37.106480 ° -123.234211 °		38
39		Down	Revetments		N	Inspector Comments: There is no rip rap at this location downstream of Chowchilla Blvd bridge crossing.	37.106480 ° -123.234211 °		39
40		Down	Encroachments		M	Inspector Comments: There is a rock dam across the channel downstream of the railroad crossing visible when water is low.	37.106480 ° -123.234211 °		40
41	Rd 16	Up	Vegetation & Obstructions		M	Inspector Comments: Wild growth present in channel, flow would be impeded.	37.099970 ° -120.256830 °	Y	41

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LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
42		Up	Shoaling / Sedimentation		M	Inspector Comments: Shoaling is well established, stabilized by trees, brush or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.	37.099970 ° -120.256830 °		42
43		Up	Erosion / Bank Caving		A	Inspector Comments: No erosion.	37.099970 ° -120.256830 °		43
44		Up	Revetments		N	Inspector Comments: There are no revetments at this location.	37.099970 ° -120.256830 °		44
45		Up	Encroachments		A	Inspector Comments: No encroachments at this location.	37.099970 ° -120.256830 °		45
46		Down	Vegetation & Obstructions		M	Inspector Comments: Excessive growth in channel.	37.099970 ° -120.256830 °	Y	46
47		Down	Shoaling / Sedimentation		U	Inspector Comments: Shoaling is well established, stabilized by trees, brush or other vegetation.	37.099970 ° -120.256830 °		47
48		Down	Erosion / Bank Caving		A	Inspector Comments: No erosion encroaching into the channel bank that would endanger the capacity of the channel was observed.	37.099970 ° -120.256830 °		48
49		Down	Revetments		N	Inspector Comments: There is no revetment at this location and is not needed.	37.099970 ° -120.256830 °		49
50		Down	Encroachments		N	Inspector Comments: No encroachments at this location.	37.099970 ° -120.256830 °		50
51	Ave 22	Up	Vegetation & Obstructions		M	Inspector Comments: There is growth in channel, flow will not be impeded. There is bambo in channel that has been cut down.	37.069030 ° -120.278630 °	Y	61
52		Up	Shoaling / Sedimentation		M	Inspector Comments: Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.	37.069030 ° -120.278630 °		62
53		Up	Erosion / Bank Caving		A	Inspector Comments: No erosion encroaching into the channel bank that would endanger the capacity of the channel was observed.	37.069030 ° -120.278630 °		63

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Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector	
Berenda Slough					18.00	07/31/2013 07/31/2013	Herman Phillips	

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
54		Up	Revetments		N	Inspector Comments: There is no revetment at this location and is not needed.	37.069030 ° -120.278630 °		64
55		Up	Encroachments		A	Inspector Comments: No encroachments at this location.	37.069030 ° -120.278630 °		65
56		Down	Vegetation & Obstructions		M	Inspector Comments: Minimal, scattered obstructions or vegetation. The flow is not impeded.	37.069030 ° -120.278630 °	Y	66
57		Down	Shoaling / Sedimentation		A	Inspector Comments: No shoaling or sedimentation present.	37.069030 ° -120.278630 °		67
58		Down	Erosion / Bank Caving		A	Inspector Comments: No erosion encroaching into the channel bank that would endanger the capacity of the channel was observed.	37.069030 ° -120.278630 °		68
59		Down	Revetments		M	Inspector Comments: Riprap was present at low crossings on the downstream side of Ave. 22 around the culvert pipes.	37.069030 ° -120.278630 °		69
60		Down	Encroachments		M	Inspector Comments: No encroachment at crossing. Not sure who authorized the pipe culverts, They appear to allow flood waters to flow over if needed.	37.069030 ° -120.278630 °		70
61	Ave 21	Up	Vegetation & Obstructions		U	Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions block approximately 50% of the FCW.	37.054470 ° -120.284380 °	Y	111
62		Up	Shoaling / Sedimentation		U	Inspector Comments: Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.	37.054470 ° -120.284380 °		112
63		Up	Revetments		N	Inspector Comments: No revetments observed at this location.	37.054470 ° -120.284380 °		114
64		Up	Encroachments		A	Inspector Comments: No encroachments.	37.054470 ° -120.284380 °		115
65		Down	Vegetation & Obstructions		U	Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions block approximately 25% of the FCW.	37.054470 ° -120.284380 °	Y	116

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Berenda Slough					18.00	07/31/2013 07/31/2013	Herman Phillips

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
66		Down	Shoaling / Sedimentation		U	Inspector Comments: Shoaling is well established, stabilized by trees, brush or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.	37.054470 ° -120.284380 °		118
67		Down	Erosion / Bank Caving		M	Inspector Comments: Not able to see any erosion due to wild growth in channel and banks.	37.054470 ° -120.284380 °		119
68		Down	Erosion / Bank Caving		M	Inspector Comments: Not able to see through wild growth.	37.054470 ° -120.284380 °		113
69		Down	Revetments		N	Inspector Comments: No revetment.	37.054470 ° -120.284380 °		120
70		Down	Encroachments		A	Inspector Comments: No encroachments.	37.054470 ° -120.284380 °		121
71	Ave 20	Up	Vegetation & Obstructions		U	Inspector Comments: Unsatisfactory wild growth in channel, not able to see system because of the wild growth present in channel.	37.039900 ° -120.296300 °	Y	71
72		Up	Shoaling / Sedimentation		U	Inspector Comments: Unable to see channel blocked by wild growth.	37.039900 ° -120.296300 °		72
73		Up	Erosion / Bank Caving		U	Inspector Comments: Unable to see the channel.	37.039900 ° -120.296300 °		73
74		Up	Revetments		U	Inspector Comments: Not able to see riprap, wild growth blocks view of banks.	37.039900 ° -120.296300 °		74
75		Up	Encroachments		U	Inspector Comments: Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operation were observed.	37.039900 ° -120.296300 °		75
76		Down	Vegetation & Obstructions		U	Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions.	37.039900 ° -120.296300 °	Y	76
77		Down	Shoaling / Sedimentation		U	Inspector Comments: Not able to see the channel because of unsatisfactory wild growth.	37.039900 ° -120.296300 °		77

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Channel Inspections**

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Channel					Channel Length	Inspection Start/End	Inspector
Berenda Slough					18.00	07/31/2013 07/31/2013	Herman Phillips

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
78		Down	Erosion / Bank Caving		U	Inspector Comments: Unable to see erosion due to wild growth.	37.039900 ° -120.296300 °		78
79		Down	Revetments		U	Inspector Comments: Dense brush, trees, or grasses hide the rock protection, or meandering and/or scour activity is undercutting the bank.	37.039900 ° -120.296300 °		79
80		Down	Encroachments		U	Inspector Comments: Trash, debris, excavation, structures, or other obstructions present, or inappropriate activities that will inhibit project operations and maintenance or emergency operation were observed.	37.039900 ° -120.296300 °		80
81	Rd 13	Up	Vegetation & Obstructions		U	Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions block approximately 50% of the FCW.	37.025350 ° -120.310510 °	Y	81
82		Up	Shoaling / Sedimentation		U	Inspector Comments: Shoaling is well established, stabilized by trees, brush or other vegetation. Shoals are diverting flow in the channel.	37.025350 ° -120.310510 °		82
83		Up	Erosion / Bank Caving		U	Inspector Comments: Wild growth makes it difficult to inspect the banks for erosion.	37.025350 ° -120.310510 °		83
84		Up	Revetments		U	Inspector Comments: Dense brush, trees, or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling.	37.025350 ° -120.310510 °		84
85		Up	Encroachments		A	Inspector Comments: No encroachments at this location.	37.025350 ° -120.310510 °		85
86		Down	Vegetation & Obstructions		M	Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions	37.025350 ° -120.310510 °	Y	86
87		Down	Shoaling / Sedimentation		U	Inspector Comments: Shoaling is well established, stabilized by trees, brush or other vegetation. Shoals are diverting flow in the channel.	37.025350 ° -120.310510 °		87
88		Down	Erosion / Bank Caving		A	Inspector Comments: No erosion.	37.025350 ° -120.310510 °		88

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LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
89		Down	Revetments		N	Inspector Comments: Unable to verify revetments due to wild growth.	37.025350 ° -120.310510 °		89
90		Down	Encroachments		A	Inspector Comments: No encroachments in the channel.	37.025350 ° -120.310510 °		90
91	Road 14	Up	Vegetation & Obstructions		U	Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions.	37.050740 ° -120.292550 °	Y	91
92		Up	Shoaling / Sedimentation		U	Inspector Comments: Shoaling is well established, stabilized by trees, brush or other vegetation. Shoals are diverting flow in the channel.	37.050740 ° -120.292550 °		92
93		Up	Erosion / Bank Caving		U	Inspector Comments: Can't see banks for erosion due to wild growth in channel and banks.	37.050740 ° -120.292550 °		93
94		Up	Revetments		U	Inspector Comments: Dense brush, trees, or grasses hide the rock protection, or meandering and/or scour activity is undercutting the banks.	37.050740 ° -120.292550 °		94
95		Up	Encroachments		A	Inspector Comments: No encroachments in the channel visibly seen during this inspection.	37.050740 ° -120.292550 °		95
96		Down	Vegetation & Obstructions		M	Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions.	37.050740 ° -120.292550 °	Y	96
97		Down	Shoaling / Sedimentation		M	Inspector Comments: Non-aquatic grasses present on shoal. No trees or brush is present on shoal, and channel flow is not impeded.	37.050740 ° -120.292550 °		97
98		Down	Erosion / Bank Caving		A	Inspector Comments: No erosion.	37.050740 ° -120.292550 °		98
99		Down	Revetments		N	Inspector Comments: No revetment.	37.050740 ° -120.292550 °		99
100		Down	Encroachments		A	Inspector Comments: No encroachments in the channel.	37.050740 ° -120.292550 °		100

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Channel					Channel Length	Inspection Start/End	Inspector
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LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
101	Ave 18 1/2	Up	Vegetation & Obstructions		U	Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions block approximately 50% of the FCW.	37.018030 ° -120.326290 °	Y	101
102		Up	Erosion / Bank Caving		M	Inspector Comments: Unable to see banks due to wild growth.	37.018030 ° -120.326290 °		103
103		Up	Revetments		U	Inspector Comments: Dense brush, trees, or grasses makes it impossible to see bank protection.	37.018030 ° -120.326290 °		104
104		Up	Encroachments		A	Inspector Comments: No encroachments in the channel.	37.018030 ° -120.326290 °		105
105		Down	Vegetation & Obstructions		U	Inspector Comments: Log jams, snags, vegetation growth (such as cat tails, bull rushes, bushes or saplings) or other obstructions block approximately 25% of the FCW.	37.018030 ° -120.326290 °	Y	106
106		Down	Shoaling / Sedimentation		M	Inspector Comments: Some shoaling with vegetation in the channel.	37.018030 ° -120.326290 °		107
107		Down	Shoaling / Sedimentation		U	Inspector Comments: Shoaling is well established, stabilized by trees, brush or other vegetation. Shoals are diverting flow to channel bank causing bank erosion and undercutting.	37.018030 ° -120.326290 °		102
108		Down	Erosion / Bank Caving		U	Inspector Comments: Dense brush growth on banks prohibits view.	37.018030 ° -120.326290 °		108
109		Down	Revetments		U	Inspector Comments: Dense brush, trees, or grasses hide the rock protection, or meandering and/or scour activity is undercutting banks, eroding embankments, or impairing channel flows by causing turbulence or shoaling.	37.018030 ° -120.326290 °		109
110		Down	Encroachments		A	Inspector Comments: No encroachments at this location.	37.018030 ° -120.326290 °		110

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Berenda Slough	18.00	07/31/2013 07/31/2013	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking upstream from Santa Fe Dr. crossing the channel. Photo taken 7-31-2013.

phillips_c_20130830_164.JPG



Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking downstream from Santa Fe Dr. Photo taken 7-31-2013.

phillips_c_20130830_165.JPG



Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Encroachments

Property owner has planted a fig tree at right bank bridge abutment downstream. Photo taken 7-31-2013.

phillips_c_20130830_166.JPG



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Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Berenda Slough	18.00	07/31/2013 07/31/2013	Herman Phillips

Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking upstream from 26 Ave. Channel covered with tulies. Photo taken 7-31-2013.

phillips_c_20130830_167.JPG



Levee Mile Report Line	16
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking downstream from Ave. 26 channel choked with wild growth. Photo taken 7-31-2013.

phillips_c_20130830_168.JPG



Levee Mile Report Line	21
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking upstream from Rd 19 channel choked with tulie. Photo taken 7-31-2013.

phillips_c_20130830_169.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Berenda Slough	18.00	07/31/2013 07/31/2013	Herman Phillips

Levee Mile Report Line	26
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking downstream from Rd 19 wild growth in channel. Photo taken 7-31-2013.

phillips_c_20130830_170.JPG



Levee Mile Report Line	31
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking upstream from the Chowchilla Blvd crossing. Photo taken 7-31-2013.

phillips_c_20130830_171.JPG



Levee Mile Report Line	36
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking downstream from Chowchilla Blvd. Photo taken 7-31-2013.

phillips_c_20130830_172.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Berenda Slough	18.00	07/31/2013 07/31/2013	Herman Phillips

Levee Mile Report Line	41
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking upstream from Rd 16. Growth in channel. Photo taken 7-31-2013.

phillips_c_20130830_173.JPG



Levee Mile Report Line	46
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough downstream from Rd. 16. Photo taken 7-31-2013.

phillips_c_20130830_174.JPG



Levee Mile Report Line	51
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough from Ave. 22. Photo taken 7-31-2013.

phillips_c_20130830_175.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Berenda Slough	18.00	07/31/2013 07/31/2013	Herman Phillips

Levee Mile Report Line	56
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough at Ave. 22 crossing. Photo taken 7-31-2013.

phillips_c_20130830_176.JPG



Levee Mile Report Line	61
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking upstream from Ave.21. Channel and both banks overgrown with wild growth. Photo taken 7-31-2013.

phillips_c_20130830_177.JPG



Levee Mile Report Line	65
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking downstream from Ave 21. Photo taken 7-31-2013.

phillips_c_20130830_179.JPG



*** Location**

LS : Land Side
WS : Water Side
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**** Rating**

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C : Corrected

**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Berenda Slough	18.00	07/31/2013 07/31/2013	Herman Phillips

Levee Mile Report Line	71
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking upstream from Ave 20 channel overgrown. Photo taken 7-31-2013.

phillips_c_20130830_178.JPG



Levee Mile Report Line	76
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking downstream from Ave.20. Bambo has covered channel and both banks. Photo taken 7-31-2013.

phillips_c_20130830_180.JPG



Levee Mile Report Line	81
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough at Rd 13 crossing. Channel overgrown. Photo taken 7-31-2013.

phillips_c_20130830_181.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Berenda Slough	18.00	07/31/2013 07/31/2013	Herman Phillips

Levee Mile Report Line	86
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda slough from Rd 13. Overgrown channel. Photo taken 7-31-2013.

phillips_c_20130830_182.JPG



Levee Mile Report Line	91
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking upstream from Rd. 14 channel and banks overgrown. Photo taken 7-31-2013.

phillips_c_20130830_183.JPG



Levee Mile Report Line	96
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough at Rd 14 downstream Channel has been burned prior to the inspection. Photo taken 7-31-2013.

phillips_c_20130830_184.JPG



*** Location**

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Berenda Slough	18.00	07/31/2013 07/31/2013	Herman Phillips

Levee Mile Report Line	101
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking upstream from Ave 18 1/2 some wild growth in channel both banks overgrown. Photo taken 7-31-2013.

phillips_c_20130830_185.JPG



Levee Mile Report Line	105
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Berenda Slough looking downstream from Ave 18 1/2. Wild growth in channel and on both banks. Photo taken 7-31-2013.

phillips_c_20130830_186.JPG



*** Location**

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CR : Crown

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Flood Control Project Maintenance**Unit Cover Sheet****2013 Channel Inspection Results****Madera County FCWCA**

Channel
Chowchilla River

Channel Rating	A
Date of Inspection	07/25/2013
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Chowchilla River					28.00	07/25/2013 07/25/2013	Richard Willoughby

LMR No.	Check Point	View	Item	Location	Rating	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
1	Downstream Buchanan Dam	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present that would impede the flow.	37.215983 ° -119.991490 °	Y	1
2		Up	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present to divert flow.	37.215983 ° -119.991490 °		51
3		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.215983 ° -119.991490 °		52
4		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.215983 ° -119.991490 °		53
5		Up	Encroachments		A	Inspector Comments: No encroachments.	37.215983 ° -119.991490 °		54
6		Down	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present that would impede the flow.	37.215983 ° -119.991490 °	Y	2
7		Down	Shoaling / Sedimentation		A	Inspector Comments: Minimal amount of shoaling present that should not divert channel flow.	37.215983 ° -119.991490 °		55
8		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.215983 ° -119.991490 °		56
9		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.215983 ° -119.991490 °		57
10		Down	Encroachments		A	Inspector Comments: No encroachments.	37.215983 ° -119.991490 °		58
11	Santa Fe Dr	Up	Vegetation & Obstructions		A	Inspector Comments: Trees established in channel near bridge should be removed for better view of channel.	37.164710 ° -120.174880 °	Y	3
12		Up	Shoaling / Sedimentation		A	Inspector Comments: Trees established near bridge should be removed for better view of channel.	37.164710 ° -120.174880 °		4
13		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.164710 ° -120.174880 °		59
14		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.164710 ° -120.174880 °		60
15		Up	Encroachments		A	Inspector Comments: No visible encroachments.	37.164710 ° -120.174880 °		8

*** Location**

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Chowchilla River					28.00	07/25/2013 07/25/2013	Richard Willoughby

LMR No.	Check Point	View	Item	Location	Rating	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
16		Down	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions impeding channel flow.	37.164710 ° -120.174880 °	Y	5
17		Down	Shoaling / Sedimentation		A	Inspector Comments: No visible sedimentation or shoaling.	37.164710 ° -120.174880 °		6
18		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.164710 ° -120.174880 °		61
19		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.164710 ° -120.174880 °		62
20		Down	Encroachments		A	Inspector Comments: No encroachments present.	37.164710 ° -120.174880 °		7
21	White Rock Rd	Up	Vegetation & Obstructions		A	Inspector Comments: Established trees near bridge should be removed.	37.161820 ° -120.202050 °	Y	9
22		Up	Shoaling / Sedimentation		A	Inspector Comments: No visible sedimentation or shoaling present.	37.161820 ° -120.202050 °		10
23		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.161820 ° -120.202050 °		63
24		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.161820 ° -120.202050 °		64
25		Up	Encroachments		A	Inspector Comments: No visible encroachments present.	37.161820 ° -120.202050 °		11
26		Down	Vegetation & Obstructions		A	Inspector Comments: Minimal vegetation or obstructions present that should not impede the flow.	37.161820 ° -120.202050 °	Y	12
27		Down	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling to divert flow.	37.161820 ° -120.202050 °		13
28		Down	Erosion / Bank Caving		M	Inspector Comments: Some minor erosion or bank caving located on right bank.	37.161820 ° -120.202050 °		65
29		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.161820 ° -120.202050 °		66
30		Down	Encroachments		A	Inspector Comments: No encroachments present.	37.161820 ° -120.202050 °		14

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Chowchilla River					28.00	07/25/2013 07/25/2013	Richard Willoughby

LMR No.	Check Point	View	Item	Location	Rating	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
31	Rd 13/ Vista Ave	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation issues present.	37.140600 ° -120.310110 °	Y	21
32		Up	Shoaling / Sedimentation		M	Inspector Comments: A minimal amount grasses present on shoal should be controlled.	37.140600 ° -120.310110 °		22
33		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.140600 ° -120.310110 °		71
34		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.140600 ° -120.310110 °		72
35		Up	Encroachments		M	Inspector Comments: Trash in channel near crossing. (Vista Rd or Rd 13)	37.140600 ° -120.310110 °	Y	23
36		Down	Vegetation & Obstructions		M	Inspector Comments: Established trees and vegetation near bridge should be removed.	37.140600 ° -120.310110 °	Y	24
37		Down	Shoaling / Sedimentation		M	Inspector Comments: Shoaling and sedimentation near bridge should be properly maintained.	37.140600 ° -120.310110 °		25
38		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.140600 ° -120.310110 °		73
39		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.140600 ° -120.310110 °		74
40		Down	Encroachments		A	Inspector Comments: No encroachments present.	37.140600 ° -120.310110 °		26
41	RD 15	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation issues present.	37.151660 ° -120.274370 °	Y	15
42		Up	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present to divert flow.	37.151660 ° -120.274370 °		16
43		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.151660 ° -120.274370 °		67
44		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.151660 ° -120.274370 °		68
45		Up	Encroachments		A	Inspector Comments: No encroachments present.	37.151660 ° -120.274370 °		17

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Chowchilla River					28.00	07/25/2013 07/25/2013	Richard Willoughby

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
46		Down	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede flow.	37.151660 ° -120.274370 °	Y	18
47		Down	Shoaling / Sedimentation		A	Inspector Comments: No visible shoaling or sedimentation present to divert flow.	37.151660 ° -120.274370 °		19
48		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.151660 ° -120.274370 °		69
49		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.151660 ° -120.274370 °		70
50		Down	Encroachments		A	Inspector Comments: No encroachments present.	37.151660 ° -120.274370 °		20
51	Low Water Crossing at Rd 11	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstruction that would impede the flow present.	37.123770 ° -120.347120 °	Y	27
52		Up	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling that would divert flow.	37.123770 ° -120.347120 °		28
53		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.123770 ° -120.347120 °		75
54		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.123770 ° -120.347120 °		76
55		Up	Encroachments		A	Inspector Comments: No encroachments.	37.123770 ° -120.347120 °		29
56		Down	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede flow.	37.123770 ° -120.347120 °	Y	30
57		Down	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present to divert flow.	37.123770 ° -120.347120 °		31
58		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.123770 ° -120.347120 °		77
59		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.123770 ° -120.347120 °		78
60		Down	Encroachments		A	Inspector Comments: No encroachments.	37.123770 ° -120.347120 °		32

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Chowchilla River	28.00	07/25/2013 07/25/2013	Richard Willoughby

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
61	Rd 9 & Bliss Rd	Up	Vegetation & Obstructions		A	Inspector Comments: Minor vegetation present and should be controlled, but should not impede flow.	37.124145 ° -120.382724 °	Y	39
62		Up	Shoaling / Sedimentation		A	Inspector Comments: Minimal amount of sedimentation or shoaling present.	37.124145 ° -120.382724 °		40
63		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.124145 ° -120.382724 °		79
64		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.124145 ° -120.382724 °		80
65		Up	Encroachments		A	Inspector Comments: No encroachments.	37.124145 ° -120.382724 °		41
66		Down	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede flow.	37.124145 ° -120.382724 °		42
67		Down	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present to divert flow.	37.124145 ° -120.382724 °		43
68		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.124145 ° -120.382724 °		81
69		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.124145 ° -120.382724 °		82
70		Down	Encroachments		M	Inspector Comments: Landowner has planted palm trees in the channel.	37.124145 ° -120.382724 °	Y	44
71	Ave 25 & Washington Rd	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede channel flow.	37.112750 ° -120.405860 °	Y	33
72		Up	Shoaling / Sedimentation		A	Inspector Comments: Sediment in front of culverts has been removed	37.112750 ° -120.405860 °	Y	34
73		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.112750 ° -120.405860 °		83
74		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.112750 ° -120.405860 °		84
75		Up	Encroachments		A	Inspector Comments: No encroachments.	37.112750 ° -120.405860 °		35

*** Location**

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Chowchilla River					28.00	07/25/2013 07/25/2013	Richard Willoughby

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
76		Down	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede channel flow.	37.112750 ° -120.405860 °	Y	36
77		Down	Shoaling / Sedimentation		A	Inspector Comments: No shoaling or sedimentation present	37.112750 ° -120.405860 °	Y	37
78		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.112750 ° -120.405860 °		85
79		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.112750 ° -120.405860 °		86
80		Down	Encroachments		A	Inspector Comments: No encroachments.	37.112750 ° -120.405860 °		38
81	Shultz Rd & Rd 5 1/2	Up	Vegetation & Obstructions		A	Inspector Comments: No vegetation or obstructions present to impede flow.	37.101570 ° -120.446260 °	Y	45
82		Up	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation or shoaling present that would divert flow.	37.101570 ° -120.446260 °		46
83		Up	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.101570 ° -120.446260 °		87
84		Up	Revetments		N	Inspector Comments: No revetment located at this site.	37.101570 ° -120.446260 °		88
85		Up	Encroachments		A	Inspector Comments: No encroachments.	37.101570 ° -120.446260 °		47
86		Down	Vegetation & Obstructions		A	Inspector Comments: Minimal amount of vegetation that should not impede channel flow.	37.101570 ° -120.446260 °	Y	48
87		Down	Shoaling / Sedimentation		A	Inspector Comments: Minimal amount of grasses present that should not impede channel flow.	37.101570 ° -120.446260 °		49
88		Down	Erosion / Bank Caving		A	Inspector Comments: No visible erosion or bank caving.	37.101570 ° -120.446260 °		89
89		Down	Revetments		N	Inspector Comments: No revetment located at this site.	37.101570 ° -120.446260 °		90
90		Down	Encroachments		A	Inspector Comments: No encroachments.	37.101570 ° -120.446260 °		50

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Chowchilla River	28.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking upstream from County Road 29.

richard_c_20130827_040.JPG



Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking upstream at willows in the middle of the channel from County Road 29.

richard_c_20130827_041.JPG



Levee Mile Report Line	6
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking downstream from County Road 29.

richard_c_20130827_042.JPG



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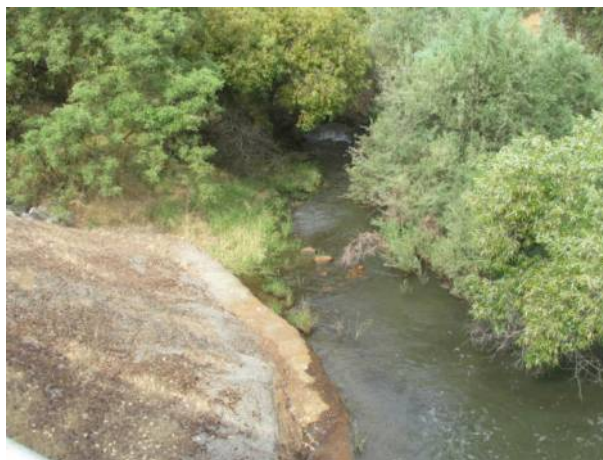
**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Chowchilla River	28.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions
Looking downstream at willows in the middle of the channel from County Road 29.	
richard_c_20130827_043.JPG	



Levee Mile Report Line	11
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions
Looking upstream from Santa Fe Dr.	
richard_c_20130827_044.JPG	



Levee Mile Report Line	16
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions
Looking downstream at channel from Santa Fe Drive.	
richard_c_20130827_045.JPG	

*** Location**

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Chowchilla River	28.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions
Looking east (upstream) at channel from White Rock Road.	
richard_c_20130827_046.JPG	



Levee Mile Report Line	26
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions
Looking west (downstream) at channel from White Rock Road.	
richard_c_20130827_047.JPG	



Levee Mile Report Line	31
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions
Looking east (upstream) at channel from Road 13.	
richard_c_20130827_050.JPG	

*** Location**

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Chowchilla River	28.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	35
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Encroachments

Looking southeast at trash in channel.

richard_c_20130827_051.JPG



Levee Mile Report Line	36
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking west (downstream) from Road 13.

richard_c_20130827_052.JPG



Levee Mile Report Line	41
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking east (upstream) at channel from Road 15.

richard_c_20130827_048.JPG



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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Chowchilla River	28.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	46
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions
Looking west (downstream) at Check Dam from Road 15.	
richard_c_20130827_049.JPG	



Levee Mile Report Line	51
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions
Looking east (upstream) at channel from Road 11.	
richard_c_20130827_053.JPG	



Levee Mile Report Line	56
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions
Looking west (downstream) at channel from Road 11.	
richard_c_20130827_054.JPG	

*** Location**

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Chowchilla River	28.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	61
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking east (upstream) at channel from Road 9.

richard_c_20130827_055.JPG



Levee Mile Report Line	70
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Encroachments

Looking west (downstream) at palm trees in channel from Road 9.

richard_c_20130827_056.JPG



Levee Mile Report Line	71
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking east (upstream) at channel from Avenue 25 & Washington Road.

richard_c_20130827_057.JPG



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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Chowchilla River	28.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	72
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Shoaling / Sedimentation
Looking northwest at sedimentation in channel upstream of Washington Rd.	
richard_c_20130715_033.JPG	



Levee Mile Report Line	72
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Shoaling / Sedimentation
Looking north at culverts crossing Avenue 25 & Washington Road.	
richard_c_20130827_058.JPG	



Levee Mile Report Line	76
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions
Looking west (downstream) at channel from Avenue 25 & Washington Road.	
richard_c_20130827_059.JPG	

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Chowchilla River	28.00	07/25/2013 07/25/2013	Richard Willoughby

Levee Mile Report Line	77
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Shoaling / Sedimentation

Looking southeast at culverts on west side of Avenue 25 & Washington Road.

richard_c_20130827_060.JPG



Levee Mile Report Line	81
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking east (upstream) at channel from Shultz Road & Road 5 1/2.

richard_c_20130827_061.JPG



Levee Mile Report Line	86
Start Levee Mile	
End Levee Mile	
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking west (downstream) at channel from Shultz Rd & Road 5 1/2.

richard_c_20130827_062.JPG



*** Location**

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Flood Control Project Maintenance**Unit Cover Sheet****2013 Channel Inspection Results****Madera County FCWCA**

Channel
Fresno River

Channel Rating	M
Date of Inspection	07/30/2013
DWR Inspector	Herman Phillips
Accompanied By	

**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Fresno River					13.00	07/30/2013 07/30/2013	Herman Phillips

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
1	U/S Limit @ Hidden Dam, Daulton Dr.	Up	Vegetation & Obstructions		A	Inspector Comments: Very little vegetation in the channel upstream side of bride crossing.	37.103916 ° -119.888060 °	Y	1
2		Up	Shoaling / Sedimentation		M	Inspector Comments: Non-aquatic grasses present in channel upstream of bridge.	37.103916 ° -119.888060 °		2
3		Up	Erosion / Bank Caving		A	Inspector Comments: No erosion noted at this site.	37.103916 ° -119.888060 °		3
4		Up	Revetments		N	Inspector Comments: No revetment noted at this site during this inspection.	37.103916 ° -119.888060 °		4
5		Up	Encroachments		A	Inspector Comments: No encroachments at this site.	37.103916 ° -119.888060 °		5
6		Down	Vegetation & Obstructions		U	Inspector Comments: Wild growth of willow trees and other wild growth has been monitored from 2011 inspection, this growth is becoming more dense in channel as shown in photo 7-30-2013. Maintenance is needed to remove growth.	37.103916 ° -119.888060 °	Y	6
7		Down	Shoaling / Sedimentation		M	Inspector Comments: Shoaling is well established, stabilized by trees brush or other vegetation.	37.103916 ° -119.888060 °		7
8		Down	Erosion / Bank Caving		U	Inspector Comments: Not able to see banks through heavy growth.	37.103916 ° -119.888060 °		8
9		Down	Revetments		U	Inspector Comments: Dense brush, trees, or wild grasses hide the rock protection, unable to see if any exist.	37.103916 ° -119.888060 °		9
10		Down	Encroachments		A	Inspector Comments: No Trash, debris, excavation, structures, or other obstructions present within the project easement area.	37.103916 ° -119.888060 °		10
11	Timber Bridge at Madera Canal	Up	Vegetation & Obstructions		A	Inspector Comments: Very little vegetation in channel during this inspection.	37.070110 ° -119.910220 °	Y	11
12		Up	Shoaling / Sedimentation		M	Inspector Comments: Non-aquatic grasses observed in channel on shoal.	37.070110 ° -119.910220 °		12
13		Up	Erosion / Bank Caving		A	Inspector Comments: No erosion encroaching into channel.	37.070110 ° -119.910220 °		13

*** Location**

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Fresno River					13.00	07/30/2013 07/30/2013	Herman Phillips

LMR No.	Check Point	View	Item	Location	Rating	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
14		Up	Revetments		N	Inspector Comments: No rip rap observed at this site.	37.070110 ° -119.910220 °		14
15		Up	Encroachments		A	Inspector Comments: No encroachments.	37.070110 ° -119.910220 °		15
16		Down	Vegetation & Obstructions		A	Inspector Comments: The vegetation present does not obstruct flow under the bridge.	37.070110 ° -119.910220 °	Y	16
17		Down	Shoaling / Sedimentation		M	Inspector Comments: Several hundred feet downstream of bridge crossing shoaling is present.	37.070110 ° -119.910220 °		17
18		Down	Erosion / Bank Caving		A	Inspector Comments: No erosion observed at this location.	37.070110 ° -119.910220 °		18
19		Down	Revetments		N	Inspector Comments: Could not see revetment here.	37.070110 ° -119.910220 °		19
20		Down	Encroachments		A	Inspector Comments: No Trash, debris, excavation, structures, or other obstructions present within the project easement area.	37.070110 ° -119.910220 °		20
21	Cleveland Ave	Up	Vegetation & Obstructions		A	Inspector Comments: Minimal, scattered obstructions or vegetation. The flow is not impeded. The channel is dry at this crossing.	36.974320 ° -120.043320 °	Y	21
22		Up	Shoaling / Sedimentation		A	Inspector Comments: No sedimentation that would cause problem.	36.974320 ° -120.043320 °		22
23		Up	Erosion / Bank Caving		A	Inspector Comments: No erosion noticed at this location.	36.974320 ° -120.043320 °		23
24		Up	Revetments		A	Inspector Comments: Existing riprap protection is properly maintained and is undamaged. Riprap clearly visible.	36.974320 ° -120.043320 °		24
25		Up	Encroachments		A	Inspector Comments: No encroachments.	36.974320 ° -120.043320 °		25
26		Down	Vegetation & Obstructions		M	Inspector Comments: Minimal scattered obstructions or vegetation. The flow is not impeded. The channel is dry at this location during this inspection. 2013.	36.974320 ° -120.043320 °	Y	26
27		Down	Shoaling / Sedimentation		A	Inspector Comments: Shoaling present downstream 100 plus feet from bridge crossing.	36.974320 ° -120.043320 °		27

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Fresno River					13.00	07/30/2013 07/30/2013	Herman Phillips

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
28		Down	Erosion / Bank Caving		M	Inspector Comments: The erosion noted in last inspection has not been addressed. Rock needs to be placed under discharge pipe.	36.974320 ° -120.043320 °		28
29		Down	Revetments		N	Inspector Comments: No riprap at this location.	36.974320 ° -120.043320 °		29
30		Down	Encroachments		A	Inspector Comments: No encroachments.	36.974320 ° -120.043320 °		30
31	Gateway Dr	Up	Vegetation & Obstructions		A	Inspector Comments: Minimal, scattered obstructions or vegetation. The flow is not impeded.	36.968760 ° -120.067840 °	Y	31
32		Up	Shoaling / Sedimentation		M	Inspector Comments: Non-aquatic grasses present on shoal. No trees or brush is present on shoal.	36.968760 ° -120.067840 °		32
33		Up	Erosion / Bank Caving		A	Inspector Comments: No head cutting or horizontal deviation observed.	36.968760 ° -120.067840 °		33
34		Up	Revetments		N	Inspector Comments: No revetment visible at this location.	36.968760 ° -120.067840 °		34
35		Up	Encroachments		A	Inspector Comments: No encroachments at this site.	36.968760 ° -120.067840 °		35
36		Down	Vegetation & Obstructions		M	Inspector Comments: Vegetation present in channel would not impede flow.	36.968760 ° -120.067840 °	Y	36
37		Down	Shoaling / Sedimentation		M	Inspector Comments: Non-aquatic grasses present on shoal left bank of the Fresno river and in the channel downstream.	36.968760 ° -120.067840 °		37
38		Down	Erosion / Bank Caving		A	Inspector Comments: No erosion observed at this location.	36.968760 ° -120.067840 °		38
39		Down	Revetments		M	Inspector Comments: No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.	36.968760 ° -120.067840 °		39
40		Down	Encroachments		A	Inspector Comments: No encroachments at this location.	36.968760 ° -120.067840 °		40

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Fresno River					13.00	07/30/2013 07/30/2013	Herman Phillips

LMR No.	Check Point	View	Item	Location	Rating	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
41	Granada Ave	Up	Vegetation & Obstructions		M	Inspector Comments: Vegetation present in channel. The flow is not impeded. Photo taken 7-30-2013.	36.967550 ° -120.128450 °	Y	41
42		Up	Shoaling / Sedimentation		M	Inspector Comments: Non-aquatic grasses present on shoal, young brush is reappearing in channel.	36.967550 ° -120.128450 °		42
43		Up	Erosion / Bank Caving		A	Inspector Comments: No erosion noted at this location.	36.967550 ° -120.128450 °		43
44		Up	Revetments		N	Inspector Comments: This item does not apply to this inspection.	36.967550 ° -120.128450 °		44
45		Down	Vegetation & Obstructions		M	Inspector Comments: Vegetation build up downstream in channel. During my inspection 7-30-2013 more veg. present in channel.	36.967550 ° -120.128450 °	Y	46
46		Down	Shoaling / Sedimentation		M	Inspector Comments: Non-aquatic grasses present on shoal, no trees but there is brush building up in channel downstream.	36.967550 ° -120.128450 °		47
47		Down	Erosion / Bank Caving		A	Inspector Comments: No erosion at this location.	36.967550 ° -120.128450 °		48
48		Down	Revetments		N	Inspector Comments: This item does not apply to this inspection.	36.967550 ° -120.128450 °		49
49		Down	Encroachments		A	Inspector Comments: No encroachments observed at this location during this inspection.	36.967550 ° -120.128450 °		50
50		Down	Encroachments		A	Inspector Comments: No encroachments at this location noted during this inspection.	36.967550 ° -120.128450 °		45
51	Rd 23	Up	Vegetation & Obstructions		M	Inspector Comments: Minimal scattered growth of vegetation in channel, the flow is not impeded.	36.967900 ° -120.128770 °	Y	51
52		Up	Shoaling / Sedimentation		M	Inspector Comments: Non-aquatic grasses present on shoals. No trees or brush present on shoals.	36.967900 ° -120.128770 °		52
53		Up	Erosion / Bank Caving		A	Inspector Comments: No erosion noticed during this inspection.	36.967900 ° -120.128770 °		53

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Fresno River					13.00	07/30/2013 07/30/2013	Herman Phillips

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
54		Up	Revetments		N	Inspector Comments: No rip rap observed at this site.	36.967900 ° -120.128770 °		54
55		Up	Encroachments		A	Inspector Comments: No encroachments at this location.	36.967900 ° -120.128770 °		55
56		Down	Vegetation & Obstructions		M	Inspector Comments: Vegetation present in channel.	36.967900 ° -120.128770 °	Y	56
57		Down	Shoaling / Sedimentation		M	Inspector Comments: Non-aquatic grasses present on shoal, there is brush growing on shoal no trees observed during this inspection.	36.967900 ° -120.128770 °		57
58		Down	Erosion / Bank Caving		A	Inspector Comments: No head cutting or horizontal deviation observed.	36.967900 ° -120.128770 °		58
59		Down	Revetments		N	Inspector Comments: This item does not apply to this inspection.	36.967900 ° -120.128770 °		59
60		Down	Encroachments		M	Inspector Comments: No encroachment noticed.	36.967900 ° -120.128770 °		60
61	Rd 20	Up	Vegetation & Obstructions		A	Inspector Comments: Minimal, scattered obstructions or vegetation. The flow is not impeded.	36.982340 ° -120.184160 °	Y	61
62		Up	Shoaling / Sedimentation		A	Inspector Comments: No shoaling.	36.982340 ° -120.184160 °		62
63		Up	Erosion / Bank Caving		A	Inspector Comments: No erosion noted at this location.	36.982340 ° -120.184160 °		63
64		Up	Revetments		N	Inspector Comments: No revetment noted during this inspection.	36.982340 ° -120.184160 °		64
65		Up	Encroachments		A	Inspector Comments: No encroachments noticed during this inspection.	36.982340 ° -120.184160 °		65
66		Down	Vegetation & Obstructions		M	Inspector Comments: Growth in channel.	36.982340 ° -120.184160 °	Y	66
67		Down	Shoaling / Sedimentation		M	Inspector Comments: Grassed present on shoal, flow is diverted within channel downstream.	36.982340 ° -120.184160 °		67

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel					Channel Length	Inspection Start/End	Inspector
Fresno River					13.00	07/30/2013 07/30/2013	Herman Phillips

LMR No.	Check Point	View	Item	Location *	Rating **	Inspector Comment	GPS Latitude & Longitude	Photo	Issue No
68		Down	Erosion / Bank Caving		A	Inspector Comments: Did not notice any erosion at this location.	36.982340 ° -120.184160 °		68
69		Down	Revetments		N	Inspector Comments: No revetment at this location.	36.982340 ° -120.184160 °		69
70		Down	Encroachments		A	Inspector Comments: No encroachments at this location observed during this inspection.	36.982340 ° -120.184160 °		70
71	Rd 19, D/S Limit	Up	Vegetation & Obstructions		U	Inspector Comments: Unsatisfactory growth in channel. Fresno River choked with growth of tullies and other plant growth. 7-2012.	36.972802 ° -120.211845 °	Y	71
72		Up	Shoaling / Sedimentation		U	Inspector Comments: Can't see channel due to wild growth.	36.972802 ° -120.211845 °		72
73		Up	Erosion / Bank Caving		M	Inspector Comments: Unable to view banks for erosion weeds too tall.	36.972802 ° -120.211845 °		73
74		Up	Revetments		N	Inspector Comments: This item does not apply to this inspection.	36.972802 ° -120.211845 °		74
75		Up	Encroachments		M	Inspector Comments: Dead tree on L./B upstream of Fresno River at road 19 bridge crossing. Photo taken 7-14-2011. Dead tree has not been removed from channel to date. 7-2012. No change in 2013.	36.972802 ° -120.211845 °		75
76		Down	Vegetation & Obstructions		U	Inspector Comments: Unsatisfactory growth in channel.	36.972802 ° -120.211845 °	Y	76
77		Down	Shoaling / Sedimentation		U	Inspector Comments: Shoaling is well established, stabilized by vegetation in channel.	36.972802 ° -120.211845 °		77
78		Down	Erosion / Bank Caving		M	Inspector Comments: Unable to see banks due to wild growth.	36.972802 ° -120.211845 °		78
79		Down	Revetments		M	Inspector Comments: No riprap displacement or scouring activity that could undercut banks, erode embankments, or restrict desired flow. Unwanted vegetation must be cleared and sprayed with an appropriate herbicide.	36.972802 ° -120.211845 °		79

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Fresno River	13.00	07/30/2013 07/30/2013	Herman Phillips

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions
Looking back upstream at hidden Dam from Daulton Bridge crossing the Fresno River. Photo taken 7-30-2013.	
phillips_c_20130830_148.JPG	



Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions
Fresno River downstream from bridge channel is becoming congested with wild growth. Photo taken 7-30-2013.	
phillips_c_20130830_149.JPG	



Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions
Standing on Timber Bridge crossing the Fresno River looking upstream. Photo taken 7-30-2013.	
phillips_c_20130830_150.JPG	

*** Location**

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CR : Crown

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Fresno River	13.00	07/30/2013 07/30/2013	Herman Phillips

Levee Mile Report Line	16
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Looking downstream from the bridge. Photo taken 7-30-2013.

phillips_c_20130830_151.JPG



Levee Mile Report Line	21
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Fresno River looking upstream from Cleveland Ave crossing. Photo taken 7-30-2013.

phillips_c_20130830_152.JPG



Levee Mile Report Line	26
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Fresno River from Cleveland Avenue bridge crossing looking downstream. Photo taken 7-30-2013.

phillips_c_20130830_153.JPG



*** Location**

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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Fresno River	13.00	07/30/2013 07/30/2013	Herman Phillips

Levee Mile Report Line	31
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Fresno River from Gtewaw crossing looking upstream of channel. Photo taken 7-30-2013.

phillips_c_20130830_154.JPG



Levee Mile Report Line	36
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Fresno River from Gateway Bridge crossing looking downstream. Photo taken 7-30-2013.

phillips_c_20130830_155.JPG



Levee Mile Report Line	41
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Fresno River from Granada Ave crossing looking upstream from bridge. There is growth in channel. Photo taken 7-30-2013.

phillips_c_20130830_156.JPG



*** Location**

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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Fresno River	13.00	07/30/2013 07/30/2013	Herman Phillips

Levee Mile Report Line	45
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Fresno River looking downstream from Granada Ave. Note the young tree growth in channel.
Photo taken 7-30-2013.

phillips_c_20130830_157.JPG



Levee Mile Report Line	51
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Fresno River crossing looking upstream from Road 23, note the young willows in channel.
Photo taken 7-30-2013.

phillips_c_20130830_158.JPG



Levee Mile Report Line	56
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Fresno River looking downstream from bridge crossing. Some growth present in channel.
Photo taken 7-30-2013.

phillips_c_20130830_159.JPG



*** Location**

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**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Fresno River	13.00	07/30/2013 07/30/2013	Herman Phillips

Levee Mile Report Line	61
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Fresno River looking upstream from Road 20 crossing. Photo taken 7-30-2013.

phillips_c_20130830_160.JPG



Levee Mile Report Line	66
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Fresno River looking downstream from Road crossing work has been done in channel right bank. Photo taken 7-30-2013.

phillips_c_20130830_161.JPG



Levee Mile Report Line	71
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Fresno River looking upstream from Rd.19, D/S. Note the tulies and other growth in channel. Photo taken 7-30-2013.

phillips_c_20130830_162.JPG



*** Location**

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WS : Water Side
CR : Crown

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N : Not Inspected, see Inspector Comment

C : Corrected

**Flood Control Project Maintenance
Channel Inspections**

Channel Inspection Report By Check Point and View Direction - 2013

Madera County FCWCA

Channel	Channel Length	Inspection Start/End	Inspector
Fresno River	13.00	07/30/2013 07/30/2013	Herman Phillips

Levee Mile Report Line	76
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Channels
Item	Vegetation & Obstructions

Fresno River looking downstream from bridge crossing. The channel is choked with wild growth. Photo taken 7-30-2013.

phillips_c_20130830_163.JPG



*** Location**

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